

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/18541

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 B26B21/44 B65D83/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 B26B B65D B05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 053 422 A (TENISON) 11 September 1962 (1962-09-11) column 2, line 6 -column 5, line 4; figures 1-3	1,2, 5-10, 12-14,34
A	---	26
X	US 5 234 140 A (DEMAREST SCOTT W ET AL) 10 August 1993 (1993-08-10) column 1, line 54 -column 6, line 12; figures 1-12	1,2, 5-10, 12-14,34
A	---	26
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

8 document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
10 November 1999	17/11/1999
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016	Authorized officer Herijgers, J

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category ¹	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 238 882 A (HARRISON JACK R SR) 16 December 1980 (1980-12-16) cited in the application column 3, line 29 -column 6, line 29; figures 1-5 --- DE 43 35 449 A (FRICK HANS RUEDI ;FREI ALFONS (CH)) 21 April 1994 (1994-04-21) the whole document -----	1,8,15, 26 15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 99/18541

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 3053422	A 11-09-1962	NONE		
US 5234140	A 10-08-1993	AU 5574994 A	14-02-1994	
		BR 9306815 A	08-12-1998	
		CA 2141219 A	03-02-1994	
		EP 0651721 A	10-05-1995	
		JP 7509209 T	12-10-1995	
		MX 9304550 A	29-04-1994	
		NZ 276022 A	26-01-1996	
		WO 9402385 A	03-02-1994	
		ZA 9305433 A	22-02-1994	
US 4238882	A 16-12-1980	NONE		
DE 4335449	A 21-04-1994	DE 9214029 U	14-01-1993	
		AT 168613 T	15-08-1998	
		AU 665883 B	18-01-1996	
		AU 5369894 A	09-05-1994	
		BR 9305746 A	28-01-1997	
		CA 2125955 A	28-04-1994	
		WO 9408764 A	28-04-1994	
		EP 0617655 A	05-10-1994	
		JP 8510653 T	12-11-1996	
		US 5761813 A	09-06-1998	